

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY

To:
PATRICK A. LUJIN
SHOOK, HARDY & BACON L.L.P.
2555 GRAND BLVD.
KANSAS CITY, MO 64108-2613

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL SEARCH REPORT AND
THE WRITTEN OPINION OF THE INTERNATIONAL
SEARCHING AUTHORITY, OR THE DECLARATION

(PCT Rule 44.1)

Date of mailing
(day/month/year)

17 MAY 2006

Applicant's or agent's file reference
MFCP108799/5

FOR FURTHER ACTION See paragraphs 1 and 4 below

International application No.
PCT/US04/24630

International filing date
(day/month/year) 30 July 2004 (30.07.2004)

Applicant
MICROSOFT CORPORATION

1. ☒ The applicant is hereby notified that the international search report and the written opinion of the International Searching Authority have been established and are transmitted herewith.

Filing of amendments and statement under Article 19:

The applicant is entitled, if he so wishes, to amend the claims of the international application (see Rule 46):

When? The time limit for filing such amendments is normally two months from the date of transmittal of the international search report.

Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes
1211 Geneva 20, Switzerland, Facsimile No.: (41-22) 338.82.70.

For more detailed instructions, see the notes on the accompanying sheet.

2. ☐ The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.
3. ☐ **With regard to the protest** against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:
- ☐ the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.
- ☐ no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.

4. Reminders

Shortly after the expiration of **18 months** from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

The applicant may submit comments on an informal basis on the written opinion of the International Searching Authority to the International Bureau. The International Bureau will send a copy of such comments to all designated Offices unless an international preliminary examination report has been or is to be established. These comments would also be made available to the public but not before the expiration of 30 months from the priority date.

Within **19 months** from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase **until 30 months** from the priority date (in some Offices even later); otherwise, the applicant must, **within 20 months** from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of **30 months** (or later) will apply even if no demand is filed within 19 months.

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the *PCT Applicant's Guide*, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

Safet Metjahic
Safet Metjahic

Telephone No. 571-272-3581

Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

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MAY 22 2006

PATENT COOPERATION TREATY

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference MFCEP108799/5	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US04/24630	International filing date (<i>day/month/year</i>) 30 July 2004 (30.07.2004)	(Earliest) Priority Date (<i>day/month/year</i>) 23 October 2003 (23.10.2003)
Applicant MICROSOFT CORPORATION		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the Report**

a. With regard to the language, the international search was carried out on the basis of:



the international application in the language in which it was filed.



a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐

With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box No. II)

3. ☐ Unity of invention is lacking (See Box No. III)

4. With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 8



as suggested by the applicant.



as selected by this Authority, because the applicant failed to suggest a figure.



as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/24630

A. CLASSIFICATION OF SUBJECT MATTER

IPC: G06F 7/00(2006.01),17/30(2006.01),3/00(2006.01),9/00(2006.01),17/00(2006.01)

USPC: 707/1;715/700

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 707/1,100;715/700,775; 719/310

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Google

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	Noworryz Explaining the Finder's View Options and Toolbar Visibility, 7 March 2003, pages 1-5, especially pages 1-3	1-18, 30-35, 41
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Y		19-29, 36-40
Y	US 5,937,406 A (Balabine et al) 10 August 1999 (10.8.1999), column 5, lines 25-30 and Figs. 5A-5C	19-29, 36-40
Y	Frogstomp An Applescript to Quickly Show or Hide Hidden Files, 10 April 2003, page 1	24, 38

cited by US examiner

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

28 February 2006 (28.02.2006)

Date of mailing of the international search report

17 MAY 2006

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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Authorized officer

Waleed Metjahic

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slw

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
PATRICK A. LUJIN
SHOOK, HARDY & BACON L.L.P.
2555 GRAND BLVD.
KANSAS CITY, MO 64108-2613

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Applicant's or agent's file reference MFPCP108799/5		Date of mailing (day/month/year) 17 MAY 2006
International application No. PCT/US04/24630		International filing date (day/month/year) 30 July 2004 (30.07.2004)
International Patent Classification (IPC) or both national classification and IPC IPC: G06F 7/00 (2006.01), 17/30 (2006.01), 3/00 (2006.01), 9/00 (2006.01), 17/00 (2006.01) USPC: 707/1;715/700		Priority date (day/month/year) 23 October 2003 (23.10.2003)
Applicant MICROSOFT CORPORATION		

1. This opinion contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the opinion |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input checked="" type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

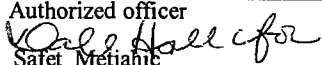
2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Date of completion of this opinion 21 April 2006 (21.04.2006)	Authorized officer  Safet Metjanic Telephone No. 571-272-3581
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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/US04/24630

Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
- ☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper
- ☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
- ☐ filed together with the international application in electronic form.
- ☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

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Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims <u>19-29, 36-40</u>	YES
	Claims <u>1-18, 30-35, and 41</u>	NO
Inventive step (IS)	Claims <u>NONE</u>	YES
	Claims <u>1-41</u>	NO
Industrial applicability (IA)	Claims <u>1-41</u>	YES
	Claims <u>NONE</u>	NO

2. Citations and explanations:

Please See Continuation Sheet

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/24630

Box No. VII Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

Specification

The description is objected to as containing the following defect(s) under PCT Rule 66.2(a)(iii) in the form or contents thereof:

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Drawings

The drawings are objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or content thereof:

The drawings do not include the following reference sign(s) mentioned in the description: Fig. 2B, detail 218.

Since the lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors, Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the drawings. For example, the drawings should be carefully checked to ensure that all reference numerals are described in the specification, that no one reference numeral describes two separate drawing elements, or that the specification contains no reference to numerals not in the drawings.

Claims 9, 16, and 35 are objected to under PCT Rule 66.2(a)(iii) as containing the following defect(s) in the form or contents thereof:

Claims 9 and 16 recites what appears to be an attempt at claiming a Markush group. If this is a Markush group claimed, the claim must follow the correct format for a Markush group.

Claim 35 recites "an items" in line 2. This is a grammatical error because the article "an" does not agree with the noun "items."

Appropriate correction is required.

**WRITTEN OPINION OF THE
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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

V. 2. Citations and Explanations:

Claims 1-18, 30-35 and 41 lack novelty under PCT Article 33(2) as being anticipated by MacOSXHints (<http://www.macosexhints.com/article.php?story=20030305025744788>).

1. **Claim 1** can be mapped to MacOSXHints as follows: "A computer system for presenting a plurality of items of multiple types to a user, [MacOSXHints, page 1, paragraph 3] the system comprising:
 - a universal data store containing said plurality of items stored in accordance with a universal data schema [MacOSXHints, page 1, paragraph 3 with MacOSXHints, page 2, paragraphs 6 and 8] and containing metadata corresponding to at least a portion of the items, wherein the metadata is stored in accordance with an item decoration schema; [MacOSXHints, page 2, paragraphs 6 and 8] and
 - a shell for presenting said plurality of items in the universal data store to a user, [MacOSXHints, page 1, paragraph 1] wherein the shell is configured to present the portion of items with said corresponding metadata to the user with an item decoration view [MacOSXHints, page 2, paragraph 8 with MacOSXHints, pages 2-3, paragraphs 10 and 12] and further configured to present the items without said corresponding metadata to the user in accordance with a default display view" [MacOSXHints, page 2, paragraph 8 with MacOSXHints, pages 2-3, paragraphs 10 and 12].
2. **Claim 2** can be mapped to MacOSXHints as follows: "The computer system of Claim 1, wherein said universal data schema includes one or more declared properties" [MacOSXHints, page 2, paragraphs 6 and 8].
3. **Claim 3** can be mapped to MacOSXHints as follows: "The computer system of Claim 2, wherein each of said plurality of items includes declarations associated with said one or more declared properties" [MacOSXHints, page 2, paragraphs 6 and 8].
4. **Claim 4** can be mapped to MacOSXHints as follows: "The computer system of Claim 2, wherein said shell utilizes said one or more declared properties to present the items without said corresponding metadata in accordance with said default display view" [MacOSXHints, page 2, paragraph 8 with MacOSXHints, pages 2-3, paragraphs 10 and 12].
5. **Claim 5** can be mapped to MacOSXHints as follows: "The computer system of Claim 1, wherein said metadata includes item decoration data" [MacOSXHints, page 2, paragraphs 6 and 8].
6. **Claim 6** can be mapped to MacOSXHints as follows: "The computer system of Claim 5, wherein said item decoration data identifies a subset of said metadata containing high value data" [MacOSXHints, page 2, paragraphs 6 and 8 with MacOSXHints, pages 2-3, paragraphs 10-12].
7. **Claim 7** can be mapped to MacOSXHints as follows: "The computer system of Claim 6, wherein said high value data is associated with information to be displayed to a user" [MacOSXHints, page 2, paragraphs 6 and 8 with MacOSXHints, pages 2-3, paragraphs 10-12].
8. **Claim 8** can be mapped to MacOSXHints as follows: "The computer system of Claim 5, wherein said item decoration data includes data indicating a format aspect associated with presentment of said metadata to a user" [MacOSXHints, page 2, paragraphs 6 and 8].

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INTERNATIONAL SEARCHING AUTHORITY**

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

9. **Claim 9** can be mapped to MacOSXHints as follows: "The computer system of Claim 8, wherein said format aspect is selected from a list including: data formatting, sort order, icon formatting, and associated controls" [MacOSXHints, page 2, paragraphs 6 and 8].
10. **Claim 10** can be mapped to MacOSXHints as follows: "The computer system of Claim 8, wherein said format aspect includes one or more verbs, said verbs being associated with operations to be performed on selected items" [MacOSXHints, page 2, paragraph 6 with MacOSXHints page 3, paragraphs 12-14].
11. **Claim 11** can be mapped to MacOSXHints as follows: "The computer system of Claim 10, wherein said operations are performed by one or more applications launched to perform said verbs with respect to said selected items" [MacOSXHints, page 2, paragraphs 6 and 8 with MacOSXHints page 3, paragraphs 12-14].
12. **Claim 12** can be mapped to MacOSXHints as follows: "The computer system of Claim 1, wherein said shell is further configured to present a set of items selected from said plurality of items according to a shell decoration view" [MacOSXHints, page 1, paragraph 1 with MacOSXHints, page 2, paragraphs 6 and 8].
13. **Claim 13** can be mapped to MacOSXHints as follows: "The computer system of Claim 12, wherein said set of items includes one or more items having metadata stored in accordance with a first item decoration schema and further includes one or more items having metadata stored in accordance with a second item decoration schema" [MacOSXHints, pages 2-3, paragraphs 6, 8, and 10-14].
14. **Claim 14** can be mapped to MacOSXHints as follows: "The computer system of Claim 12, wherein said shell decoration view includes one or more display aspects appropriate for displaying each of said set of items to a user" [MacOSXHints, page 2, paragraphs 6 and 8].
15. **Claim 15** can be mapped to MacOSXHints as follows: "The computer system of Claim 14, wherein each of said set of items include a common characteristic" [MacOSXHints, page 2, paragraphs 6 and 8].
16. **Claim 16** can be mapped to MacOSXHints as follows: "The computer system of Claim 15, wherein said common characteristic is selected from a list including: document file, image file, audio file, and video file" [MacOSXHints, page 2, paragraphs 6 and 8].
17. **Claim 17** can be mapped to MacOSXHints as follows: "The computer system of Claim 12, wherein said one or more of said set of items are associated with an item decoration view that conflicts with said shell decoration view" [MacOSXHints, pages 2-3, paragraphs 6, 8, and 10-14].
18. **Claim 18** can be mapped to MacOSXHints as follows: "The computer system of Claim 12, wherein said shell is further configured to present one or more of said set of items with decorative elements associated with an item decoration view and wherein said decorative elements do not conflict with said shell decoration view" [MacOSXHints, pages 2-3, paragraphs 6, 8, and 10-14].
19. **Claim 30** can be mapped to MacOSXHints as follows: "A computer implemented method for presenting a plurality of items stored in a universal data store to a user, [MacOSXHints, page 1, paragraph 3 with MacOSXHints, page 2, paragraphs 6 and 8] the method comprising:
 - accessing said universal data store in response to a request to present one or more of said plurality of items to the user, [MacOSXHints, pages 2-3, paragraphs 6, 8, and 10-14] wherein said plurality of items are stored in accordance with a universal data schema, [MacOSXHints, page 1, paragraph 3 with MacOSXHints, page 2, paragraphs 6 and 8] and wherein at least a portion of said plurality of items contain metadata stored in accordance with an item decoration schema; [MacOSXHints, page 2, paragraphs 6 and 8] and
 - presenting said one or more requested items to the user, [MacOSXHints, page 1, paragraph 1] wherein a requested item with said corresponding metadata is presented with a item decoration view [MacOSXHints, page 2, paragraph 8 with MacOSXHints, pages 2-3, paragraphs 10 and 12] and wherein a requested items without said corresponding metadata is presented in accordance with a default display view" [MacOSXHints, page 2, paragraph 8 with MacOSXHints, pages 2-3, paragraphs 10 and 12].
20. **Claim 31** can be mapped to MacOSXHints as follows: "The method of Claim 30, wherein said metadata includes data indicating one or more decorative aspects associated with presentment of said metadata to a user" [MacOSXHints, page 2, paragraphs 6 and 8].
21. **Claim 32** can be mapped to MacOSXHints as follows: "The method of Claim 31, wherein presenting a requested item with said corresponding metadata includes presenting said metadata according to one or more of said decorative aspects" [MacOSXHints, pages 2-3, paragraphs 6, 8, and 10-14].
22. **Claim 33** can be mapped to MacOSXHints as follows: "The method of Claim 31, wherein said method further comprises presenting a set of items according to a shell decoration view, wherein said set of items includes one or more items having metadata stored in accordance with a first item decoration schema and further includes one or more items having metadata stored in accordance with a second item decoration schema" [MacOSXHints, pages 2-3, paragraphs 6, 8, and 10-14].
23. **Claim 34** can be mapped to MacOSXHints as follows: "The method of Claim 33, wherein said shell decoration view includes one or more display aspects appropriate for displaying each of said set of items to a user" [MacOSXHints, page 2, paragraphs 6 and 8].
24. **Claim 35** can be mapped to MacOSXHints as follows: "The method of Claim 33, wherein presenting said set of items according to a shell decoration view includes presenting an items having an item decoration schema which conflicts with said shell decoration view according to said shell decoration view" [MacOSXHints, pages 2-3, paragraphs 6, 8, and 10-14].
25. **Claim 41** can be mapped to MacOSXHints as follows: "A shell for presenting a plurality of items stored in a universal data store to a user, [MacOSXHints, page 1, paragraph 3] the shell comprising:
 - a data store interaction component which retrieves data associated with one or more of said plurality of items from the universal data store in response to a request to present the one or more items to the user, [MacOSXHints, pages 2-3, paragraphs 6, 8, and 10-14] wherein said data is stored in accordance with a universal data schema, [MacOSXHints, page 1, paragraph 3 with MacOSXHints, page 2, paragraphs 6 and 8] and wherein at least a portion of said plurality of items include corresponding metadata which is stored in accordance with an item decoration schema; [MacOSXHints, page 2, paragraphs 6 and 8] and
 - a display presentation component which utilizes said retrieved data to present a display view of said one or more requested items, [MacOSXHints, page 1, paragraph 1] wherein said display presentation component is configured to present a requested item with said corresponding metadata with an item decoration view [MacOSXHints, page 2, paragraph 8 with MacOSXHints, pages 2-3, paragraphs 10 and 12] and further configured to present a requested items without said corresponding metadata in accordance with a default display

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

view" [MacOSXHints, page 2, paragraph 8 with MacOSXHints, pages 2-3, paragraphs 10 and 12].

26. Claims 19-23, 25-29, 36, 37, 39, and 40 lack inventive step under PCT Article 33(3) as being obvious over MacOSXHints (<http://www.macosxhints.com/article.php?story=20030305025744788>) in view of U.S. Patent No. 5,937,406 (Balabine et al.).
27. For **Claim 19**, MacOSXHints teaches: "The computer system of Claim 1."
- MacOSXHints discloses the above limitations but does not expressly teach: "...wherein said shell is further configured to present items selected from said plurality of items according to an explorer display view."
- With respect to Claim 19, an analogous art, Balabine, teaches: "...wherein said shell is further configured to present items selected from said plurality of items according to an explorer display view" [Balabine, Figs. 5A-5C].
- It would have been obvious to one of ordinary skill in the art at the time of invention to combine Balabine with MacOSXHints because both inventions are directed towards storing and viewing files on file systems.
- Balabine's invention would have been expected to successfully work well with MacOSXHints's invention because both inventions use file systems on computers. MacOSXHints discloses Mac OS X's handling of metadata display information comprising a .DS_Store file, windows, icons, and display properties, however MacOSXHints does not expressly disclose an explorer display view. Balabine discloses a file system interface to a database comprising an explorer display view.
- It would have been obvious to one of ordinary skill in the art at the time of invention to take the explorer display view from Balabine and install it into the computer system of MacOSXHints, thereby offering the obvious advantage of offering the user a choice in display view interfaces.
28. **Claim 20** can be mapped to MacOSXHints (as modified by Balabine) as follows: "The computer system of Claim 19, wherein said explorer display view includes one or more decorative properties" [MacOSXHints, page 2, paragraph 6 with MacOSXHints, page 3, paragraphs 11-13 with Balabine, Figs. 5A-5C].
29. **Claim 21** can be mapped to MacOSXHints (as modified by Balabine) as follows: "The computer system of Claim 19, wherein said explorer display view includes one or more shell display views, and wherein one of said shell display views is utilized to display a set of explorer items" [MacOSXHints, page 2, paragraph 6 with MacOSXHints, page 3, paragraphs 11-13 with Balabine, Figs. 5A-5C].
30. **Claim 22** can be mapped to MacOSXHints (as modified by Balabine) as follows: "The computer system of Claim 21, wherein said shell display view includes one or more display aspects appropriate for displaying each of said set of explorer items to a user" [MacOSXHints, page 2, paragraphs 6 and 8].
31. **Claim 23** can be mapped to MacOSXHints (as modified by Balabine) as follows: "The computer system of Claim 22, wherein each of said set of explorer items include a common characteristic" [MacOSXHints, page 2, paragraphs 6 and 8].
32. **Claim 25** can be mapped to MacOSXHints (as modified by Balabine) as follows: "The computer system of Claim 21, wherein said explorer display view is configured to display an explorer item which is not associated with a shell display view according to an item decoration view" [MacOSXHints, page 2, paragraphs 6 and 8 with MacOSXHints, page 3, paragraphs 11-13 with Balabine, Figs. 5A-5C].
33. **Claim 26** can be mapped to MacOSXHints (as modified by Balabine) as follows: "The computer system of Claim 21, wherein said explorer display view is configured to display an explorer item which is not associated with an item decoration view according to said default display view" [MacOSXHints, page 2, paragraphs 6 and 8 with MacOSXHints, page 3, paragraphs 11-13 with Balabine, Figs. 5A-5C].
34. **Claim 27** can be mapped to MacOSXHints (as modified by Balabine) as follows: "The computer system of Claim 19, wherein said explorer display view includes one or more data queries associated with said explorer display view" [Balabine, col. 5, lines 25-30].
35. **Claim 28** can be mapped to MacOSXHints (as modified by Balabine) as follows: "The computer system of Claim 19, wherein said explorer display view includes one or more verbs, said verbs being associated with an operation to be performed on a selected explorer item" [MacOSXHints, page 2, paragraph 6 with MacOSXHints page 3, paragraphs 12-14].
36. **Claim 29** can be mapped to MacOSXHints (as modified by Balabine) as follows: "The computer system of Claim 28, wherein said operation is performed by an application launched to perform said task with respect to said selected explorer item" [MacOSXHints, page 2, paragraphs 6 and 8 with MacOSXHints page 3, paragraphs 12-14].
37. For **Claim 36**, MacOSXHints teaches: "The method of Claim 30."
- MacOSXHints discloses the above limitations but does not expressly teach: "...wherein said method further comprises presenting items according to an explorer display view."
38. With respect to Claim 36, an analogous art, Balabine, teaches: "...wherein said method further comprises presenting items according to an explorer display view" [Balabine, Figs. 5A-5C].
- It would have been obvious to one of ordinary skill in the art at the time of invention to combine Balabine with MacOSXHints because both inventions are directed towards storing and viewing files on file systems.
- Balabine's invention would have been expected to successfully work well with MacOSXHints's invention because both inventions use file systems on computers. MacOSXHints discloses Mac OS X's handling of metadata display information comprising a .DS_Store file, windows, icons, and display properties, however MacOSXHints does not expressly disclose an explorer display view. Balabine discloses a file system interface to a database comprising an explorer display view.
- It would have been obvious to one of ordinary skill in the art at the time of invention to take the explorer display view from Balabine and install it into the computer system of MacOSXHints, thereby offering the obvious advantage of offering the user a choice in display view interfaces.
39. **Claim 37** can be mapped to MacOSXHints (as modified by Balabine) as follows: "The method of Claim 36, wherein said explorer display view includes one or more decorative properties [MacOSXHints, page 2, paragraph 6 with MacOSXHints, page 3, paragraphs 11-13 with Balabine, Figs. 5A-5C] and one or more shell display views, and wherein one or more of said shell display views are utilized to display a set of explorer items" [MacOSXHints, page 2, paragraph 6 with MacOSXHints, page 3, paragraphs 11-13 with Balabine,

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/US04/24630

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Figs. 5A-5C].

40. **Claim 39** can be mapped to MacOSXHints (as modified by Balabine) as follows: "The method of Claim 37, wherein an item which cannot be displayed according to a shell display view is presented according to an item decoration view" [MacOSXHints, pages 2-3, paragraphs 6, 8, and 10-14].
41. **Claim 40** can be mapped to MacOSXHints (as modified by Balabine) as follows: "The method of Claim 36, wherein said explorer display view includes one or more verbs, said verbs being associated with an operation to be performed on a selected explorer item" [MacOSXHints, page 2, paragraph 6 with MacOSXHints page 3, paragraphs 12-14].

Claims 24 and 38 lack inventive step under PCT Article 33(3) as being obvious over MacOSXHints (<http://www.macosexhints.com/article.php?story=20030305025744788>) in view of U.S. Patent No. 5,937,406 (Balabine et al.), further in view of MacOSXHints2 (<http://www.macosexhints.com/article.php?story=20030409015020645>).

42. For **Claim 24**, MacOSXHints (as modified by Balabine) teaches: "The computer system of Claim 21."

MacOSXHints (as modified by Balabine) discloses the above limitations but does not expressly teach: "...wherein said explorer display view is configured to utilize a shell display view not included with an explorer to display an item which cannot be displayed according to said one or more shell display views included with said explorer display view."

With respect to Claim 24, an analogous art, MacOSXHints2, teaches: "...wherein said explorer display view is configured to utilize a shell display view not included with an explorer to display an item which cannot be displayed according to said one or more shell display views included with said explorer display view" [MacOSXHints2, page 1 with MacOSXHints, page 1, paragraph 3].

It would have been obvious to one of ordinary skill in the art at the time of invention to combine MacOSXHints2 with MacOSXHints (as modified by Balabine) because both inventions are directed towards storing and viewing files on file systems.

MacOSXHints2's invention would have been expected to successfully work well with MacOSXHints (as modified by Balabine)'s invention because both inventions use file systems on computers. MacOSXHints (as modified by Balabine) discloses Mac OS X's handling of metadata display information comprising a .DS_Store file, windows, icons, and display properties, however MacOSXHints (as modified by Balabine) does not expressly disclose an explorer display view. MacOSXHints2 discloses changing the finder preference of viewing invisible files comprising a script.

It would have been obvious to one of ordinary skill in the art at the time of invention to take the explorer display view from MacOSXHints2 and install it into the computer system of MacOSXHints (as modified by Balabine), thereby offering the obvious advantage of offering the user a choice in display view interfaces.

43. For **Claim 38**, MacOSXHints (as modified by Balabine) teaches: "The method of Claim 37."

MacOSXHints (as modified by Balabine) discloses the above limitations but does not expressly teach: "...wherein an item which cannot be displayed according to said one or more shell display views included with said explorer display view is presented according to a shell display view not included with said explorer display view."

With respect to Claim 38, an analogous art, MacOSXHints2, teaches: "...wherein an item which cannot be displayed according to said one or more shell display views included with said explorer display view is presented according to a shell display view not included with said explorer display view" [MacOSXHints2, page 1 with MacOSXHints, page 1, paragraph 3].

It would have been obvious to one of ordinary skill in the art at the time of invention to combine MacOSXHints2 with MacOSXHints (as modified by Balabine) because both inventions are directed towards storing and viewing files on file systems.

MacOSXHints2's invention would have been expected to successfully work well with MacOSXHints (as modified by Balabine)'s invention because both inventions use file systems on computers. MacOSXHints (as modified by Balabine) discloses Mac OS X's handling of metadata display information comprising a .DS_Store file, windows, icons, and display properties, however MacOSXHints (as modified by Balabine) does not expressly disclose an explorer display view. MacOSXHints2 discloses changing the finder preference of viewing invisible files comprising a script.

It would have been obvious to one of ordinary skill in the art at the time of invention to take the explorer display view from MacOSXHints2 and install it into the computer system of MacOSXHints (as modified by Balabine), thereby offering the obvious advantage of offering the user a choice in display view interfaces.

Claims 1-41 meet the criteria set out in PCT article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended ?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When ? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments ?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How ? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments ?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.